

PCT

REQUEST

For receiving Office use only	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International	Application"

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offic	ce and "PCT International Application"
	Applicant's or agent's f (if desired) (12 characte	ile reference rs maximum) UPN-02811PCT
Box No. 1 TITLE OF INVENTION		
CHIMERIC EBOLA VIRUS ENVELOPES AND	USES THEREFOR	(
Box No. II APPLICANT This perso	n is also inventor	
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	ine address indicated in this	Telephone No. 215-573-4507
The Trustees of the University of Pennsylv		Facsimile No.
3160 Chestnut Street	arii a	215-898-9519
Suite 200		Teleprinter No.
Philadelphia, Pennsylvania 19104-3147	US	Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country)	of residence:
US	US	
This person is applicant for the purposes of: all designated the United States		the United States the States indicated in of America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal enter the address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of	the adaress malcated in this nice is indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: US	State (that is, country) US	of residence:
This person is applicant all designated all designated	ted States except States of America	the United States of America only the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated	on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIV	E; OR ADDRESS FOR	CORRESPONDENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	es as:	agent common representative
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of	ntity, full official designation. country.)	Telephone No. 215-540-9200
Kodroff, Cathy A.		Facsimile No.
Howson and Howson		215-540-5818
Spring House Corporate Center P.O. Box 457		Teleprinter No.
Spring House, Pennsylvania 19477 US		Agent's registration No. with the Office 33,980
Address for correspondence: Mark this check-box whe	re no agent or common re to which correspondence	presentative is/has been appointed and the should be sent.

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ς ኩ	eet	No.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not be included in the request.				
Name and address: (Family name followed by given name: for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. Medina, Maria Fe C. 2200 Ben Franklin Parkway, W401 Philadelphia, Pennsylvania 19130 US	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: CA	State (that is, country) of residence: US			
This person is applicant all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence if the State of the Including State of	e address indicated in this			
State (that is, country) of nationality:	State (that is, country) of residence: US			
This person is applicant all designated for the purposes of:	States except ates of America only the United States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residenc	e address indicated in this			
State (that is, country) of nationality:	State (that is, country) of residence:			
	States except ates of America the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residenc	e address Indicated in this			
State (that is, country) of nationality:	State (that is, country) of residence:			
	States except ates of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated of	n another continuation sheet.			

Sheet No. ...3..

Box No.	V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked	
The follo	owing designations are hereby made	under Rule 4.9(a):	
Regions	al Patent		1
DE AP	ADIPO Patent: CH Ghana Gi	M Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sud	an,
	SL Sierra Leone, SZ Swaziland, TZ State which is a Contracting State specify on dotted line)	ZUnited Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any of of the Harare Protocol and of the PCT (if other kind of protection or treatment desired	red,
X EA	Eurosian Patent: AM Armenia A	Z. Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldo	ova,
L	RU Russian Federation, TJ Tajikis Patent Convention and of the PCT	tan, TM Turkmenistan, and any other State which is a Contracting State of the Euras	sian
⊠ EP	Republic, DE Germany, DK Denn	Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Cznark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greering, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovatich is a Contracting State of the European Patent Convention and of the PCT	ece,
RPA C.	OADI Detent. DE Dudring Face	BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Camero	oon.
	GA Gabon, GN Guinea, GQ Equa TD Chad, TG Togo, and any other of protection or treatment desired,	atorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Sene State which is a member State of OAPI and a Contracting State of the PCT (if other is specify on dotted line)	gal, kind
Nation	al Patent (if other kind of protection	n or treatment desired, specify on dotted line):	•
DE AF	United Arab Emirates	☑ GMGambia ☑ NZ New Zealand	
197 AC	Antique and Barbuda	X HR Croatia M OM Oman	
DO AL	Albania	HU Hungary PH Philippines	
DE AM	Armenia	☑ ID Indonesia ☑ PL Poland	
1021 AT	Austria	IL Israel IN PT Portugal	
X AU	Australia	IN India IN RO Romania	
X AZ	Azerbaijan	IS Iceland RU Russian Federation	
□ BA	Rosnia and Herzegovina	☑ JP Japan	
X BB	Barbados	KE Kenya KE Kenya KE SC Seychelles	
K BG	Bulgaria	KG Kyrgyzstan SD Sudan	
X BR	Brazil	KP Democratic People's Republic X SE Sweden	
₩ BV	Relanis	of Korea	
R BZ	Belize	KR Republic of Korea	
1 7.1	Canada	KZ Kazakhstan	
	& LI Switzerland and Liechtenstein	LC Saint Lucia TJ Tajikistan	
DE CN	China	LK Sri Lanka TM Turkmenistan	
	Colombia	🔀 LR Liberia 🔀 TN Tunisia	
DC CR	Costa Rica	LS Lesotho IX TR Turkey	
DE CI	Cuba	LT Lithuania TT Trinidad and Tobago	
DX CZ	Czech Republic	LU Luxembourg	
M DE	Germany	LV Latvia TZ United Republic of Tanzania	
I MIDK	Denmark	MA Morocco	
X DM	Dominica	MD Republic of Moldova	
₩ DZ	Algeria	US United States of America	
DE RC	Feundor	MG Madagascar	
IX EE	Estonia	MKThe former Yugoslav Republic of UZ Uzbekistan	
DO ES	Spain	Macedonia	lines
₩ FI	Finland	M ANNAGORALIA	
	United Kingdom	MWMalawi X YU Yugoslavia	
	-	Mark a series as a SV CO A County A Color	
DE GE	Georgia	MZ Mozambique Z ZM Zambia	
⊠ GH	Ghana	NO Norway ZW Zimbabwe	• • • •
Check-	boxes below reserved for designating	g States which have become party to the PCT after issuance of this sheet:	
⊠ . Ni	caragua	·	• • • •
Precau	tionary Designation Statement: I	addition to the designations made above, the applicant also makes under Rule 4.9(b) all
ather d	ecianations which would be permitt	ed under the PCT except any designation(s) indicated in the Supplemental Box as	pemg
exclude	ed from the scope of this statement. T	he applicant declares that those additional designations are subject to confirmation and	a tnat

any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same number as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. V, the name of any State (or OAPI) is accompanted by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanted by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and Indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: In such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded

"Continuation of Box No. IV"

Kita, Stanley B. Smith, Jr., George A. Bak, Mary E. Bak, William Palovich, Tracy *

* registered USPTO patent agent only

All above attorneys are members of the firm of Howson and Howson.

Address of all is indicated in Box No. IV.

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Sheet	NI -	_		
Succi	NO.	 .4	٠	

Box No. VI PRIORITY	CLAIM			
The priority of the following	earlier application(s) is hereb	oy claimed:		
Filing date Number Where earlier application is:				
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 30 April 2002	60/376,480	us		
item (2) 04 June 2002	60/385,704	US		·
item (3) 20 November 2002	60/427,752	us		
item (4)				
item (5)		·		
	are indicated in the Suppleme			
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application ts the receiving Office) identified above as: all items item (1) item (2) item (3) item (4) item (5) other, see Supplemental Box Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Box No. VIII DECLARA	TIONS			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations				
Box No. VIII (i)	Declaration as to the identi	ity of the inventor		:
Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :			:	
Box No. VIII (iii)	Declaration as to the appl date, to claim the priority	licant's entitlement, as at of the earlier application	the international filing	:
Box No. VIII (iv)	Declaration of inventorsh United States of America		of the designation of the	. :
Box No. VIII (v)	Declaration as to non-pre	judicial disclosures or exc	eptions to lack of novelt	y :

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Box No. IX CHECK LIST; LANGUAGE C	of FILING		
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-baxes below and indicate in right column the number of each item):	Number of items	
sheets: request (including	1. K fee calculation sheet	: 1	
declaration sheets) : 6	2. original separate power of attorney	: }	
description (excluding sequence listings and/or	3. original general power of attorney	:	
tables related thereto) : 66	4. X copy of general power of attorney; reference number, if any:	. 1	
claims : 8	5. statement explaining lack of signature	:	
abstract : 1	6 D priority document(s) identified in Box No. VI as		
drawings : 3	item(s):	:	
Sub-total number of sheets: 84 sequence listings: 29	7. translation of international application into (language):	:	
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	:	
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)		
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international applications)	on):	
Total number of sheets : 113	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column)		
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter (iii) Del together with relevant statement as to the identity of the copy		
(i) ☐ sequence listings (ii) ☐ tables related thereto	copies with the sequence listings mentioned in left column 10. tables in computer readable form related to sequence listings	: 1	
(c) X also in computer readable form (Section 801(a)(ii))	(indicate type and number of carriers) (i) copy submitted for the purposes of international search under		
(i) Sequence listings (ii) tables related thereto	(i) Copy submitted for the purposes of international search white Section 802(b-quater) only (and not as part of the internation application)	al :	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (only where cluck-box (b) (ii) or (c) (ii) is nuarked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater	ne .	
contained the sequence listings: 1.diskette	(iii) together with relevant statement as to the identity of the copy copies with the tables mentioned in left column	or .	
tables related thereto:	11. X other (specify): transmittal letter to the USRO	. 1	
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. M. Unici (specyy). The initial control of		
Figure of the drawings which should accompany the abstract:	Language of filing of the international application:		
Box No. X SIGNATURE OF APPLICAN	T, AGENT OR COMMON REPRESENTATIVE	ng the request).	
Box No. X SIGNATURE OF APPLICANT, AGENT ON Control of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). By: Cathy A. Kodfoff Attorney for Applicants			
	For receiving Office use only		
Date of actual receipt of the purported international application:		eceived:	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			
Date of timely receipt of the required corrections under PCT Article 11(2):	n	ot received:	
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid		
For International Bureau use only			
Date of receipt of the record copy by the International Bureau:			